

ABSTRACT OF THE DISCLOSURE

A method for producing a ketone, particularly a macrocyclic ketone, from a 2-hydroxycycloalkanone having from 12 to 18 carbon atoms by efficiently dehydrating and
5 reducing the acyloin in a single reaction vessel. A method for producing a ketone compound, which comprises dehydrating and reducing an acyloin in the coexistence of an acid catalyst and a reduction catalyst and in the presence of hydrogen, particularly using a 2-
10 hydroxycycloalkanone having from 12 to 18 carbon atoms as the acyloin.